

2. Which variables should be kept the same in the experiment?

The type of plant, the amount of soil, the type of soil, the size of the glass jar, the amount of water given to the plants and the place where the set-ups are placed.

3. Is the experiment a fair test? Yes

4. The leaves from the plants are tested for starch after they are exposed to sunlight for two days, and the results obtained are as follows.

Leaf from set-up A	Leaf from set-up B
Starch is absent	Starch is present

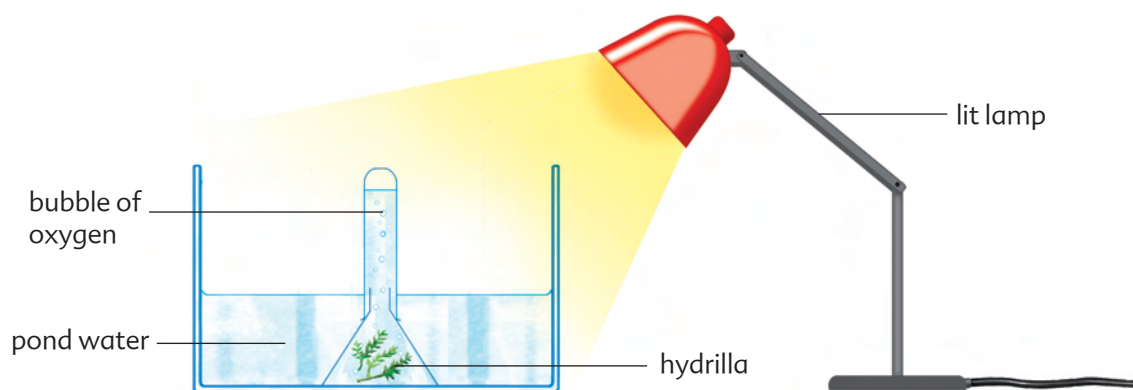
What conclusion can you draw from the above results?

Plants need carbon dioxide to carry out photosynthesis.

### Part B : Rate of photosynthesis

How does the brightness of light affect the rate of photosynthesis?

1. Your hypothesis: The brighter the light, the faster the rate of photosynthesis.
2. Observe the following set-up and identify the variables you will change and keep the same to test your hypothesis.



(a) Variable that I will change.

The brightness of light shining at the plant. / The distance of the lamp from the hydrilla.

(b) Variables that I will keep the same.

The type of plant, the amount of pond water and type of lamp used.